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DATE: Friday, January 13, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L1	amylase with bacillus with (ksm adj3 k38 or bp adj3 6946 or k38amy)	5

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20040265959 A1

Using default format because multiple data bases are involved.

L1: Entry 1 of 5

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Araki, Hiroyuki	Tochigi		JP
Endo, Keiji	Tochigi		JP
Hagiwara, Hiroshi	Tochigi		JP
Igarashi, Kazuaki	Tochigi		JP
Hayashi, Yasuhiro	Tochigi		JP
Ozaki, Katsuya	Tochigi		JP

US-CL-CURRENT: [435/69.1](#); [435/204](#), [435/252.3](#), [435/320.1](#), [510/320](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn De
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2. Document ID: US 20040091994 A1

L1: Entry 2 of 5

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040091994

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040091994 A1

TITLE: Alpha-amylase variant with altered properties

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Andersen, Carsten	Vaerlose		DK

US-CL-CURRENT: [435/202](#); [435/252.3](#), [435/320.1](#), [435/69.1](#), [510/220](#), [510/320](#), [536/23.2](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 3. Document ID: US 20020123124 A1

L1: Entry 3 of 5

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123124

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Araki, Hiroyuki	Haga-gun		JP
Endo, Keiji	Haga-gun		JP
Hagiwara, Hiroshi	Haga-gun		JP
Igarashi, Kazuaki	Haga-gun		JP
Hayashi, Yasuhiro	Haga-gun		JP
Ozaki, Katsuya	Haga-gun		JP

US-CL-CURRENT: [435/202](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 4. Document ID: US 6743616 B2

L1: Entry 4 of 5

File: USPT

Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

** See image for Certificate of Correction **

TITLE: Highly productive alpha-amylases

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

 5. Document ID: US 20040091994 A1, WO 200231124 A2, AU 200210380 A, EP 1326965 A2

L1: Entry 5 of 5

File: DWPI

May 13, 2004

DERWENT-ACC-NO: 2002-463264

DERWENT-WEEK: 200432

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TITLE: KSM-K36 or KSM-K38 variant from Bacillus for cleaning dishes, textile desizing, starch liquefaction and ethanol production has alpha-amylase activity

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Print](#) | [Claims](#) | [KMIC](#) | [Drawn](#)

[Clear](#)

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[Blkwd Refs](#)

[Generate OACS](#)

Terms

Documents

amylase with bacillus with (ksm adj3 k38 or
bp adj3 6946 or k38amy)

5

Display Format: [Change Format](#)

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[Go to Doc#](#)

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NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAplus with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC

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CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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<http://download.cas.org/express/v8.0-Discover/>

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=> s amylase (5a)bacillus(5a)(ksm-k38 or bp-6946 or k38amy)

L1 27 AMYLASE (5A) BACILLUS (5A) (KSM-K38 OR BP-6946 OR K38AMY)

=> dup rem 11

PROCESSING COMPLETED FOR L1

L2 11 DUP REM L1 (16 DUPLICATES REMOVED)

=> d 1-11

L2 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1004880 HCAPLUS

DN 143:280533

TI Modified sigE recognized promoter for increased expression of recombinant proteins

IN Endo, Keiji; Ozaki, Katsuya

PA Kao Corporation, Japan

SO PCT Int. Appl., 19 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2005085441 | A1 | 20050915 | WO 2005-JP3757 | 20050304 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,
NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG | | | | |
| | JP 2005278644 | A2 | 20051013 | JP 2005-60482 | 20050304 |
| PRAI | JP 2004-62853 | A | 20040305 | | |

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:207942 HCAPLUS

DN 142:331573

TI An oxidation stable and chelator-resistant, calcium-free .alpha.-
amylase from the alkaliphilic ***Bacillus*** isolate
KSM - ***K38***

AU Hagihara, Hiroshi

CS Biol. Sci. Lab., Kao Corp., Tochigi, 321-3497, Japan
SO Journal of Applied Glycoscience (2005), 52(1), 51-58
CODEN: JAGLFX; ISSN: 1344-7882
PB Japanese Society of Applied Glycoscience
DT Journal; General Review
LA Japanese

L2 ANSWER 3 OF 11 MEDLINE on STN DUPLICATE 1
AN 2003316377 MEDLINE
DN PubMed ID: 12719434
TI Crystal structure of calcium-free alpha- ***amylase*** from
Bacillus sp. strain ***KSM*** - ***K38*** (AmyK38) and its
sodium ion binding sites.
AU Nonaka Tsuyoshi; Fujihashi Masahiro; Kita Akiko; Hagiwara Hiroshi; Ozaki
Katsuya; Ito Susumu; Miki Kunio
CS Department of Chemistry, Graduate School of Science, Kyoto University,
Sakyo-ku, Japan.
SO Journal of biological chemistry, (2003 Jul 4) 278 (27) 24818-24.
Electronic Publication: 2003-04-28.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS PDB-1UD2; PDB-1UD3; PDB-1UD4; PDB-1UD5; PDB-1UD6; PDB-1UD8
EM 200308
ED Entered STN: 20030709
Last Updated on STN: 20030819
Entered Medline: 20030818

L2 ANSWER 4 OF 11 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 2
AN 2002-16321 BIOTECHDS
TI KSM-K36 or KSM-K38 variant from Bacillus for cleaning dishes, textile
desizing, starch liquefaction and ethanol production has alpha-amylase
activity;
plasmid-mediated recombinant mutant enzyme gene transfer and
expression in Bacillus sp.
AU ANDERSEN C
PA NOVOZYMES AS
PI WO 2002031124 18 Apr 2002
AI WO 2000-DK668 13 Oct 2000
PRAI US 2001-326752 3 Oct 2001
DT Patent
LA English
OS WPI: 2002-463264 [49]

L2 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:284478 HCAPLUS
DN 136:305146
TI Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
thermostability, recombinant expression, and detergent use
IN Araki, Hiroyuki; Endo, Keiji; Hagiwara, Hiroshi; Igarashi, Kazuaki;
Hayashi, Yasuhiro; Ozaki, Katsuya
PA Kao Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | JP 2002112792 | A2 | 20020416 | JP 2000-310605 | 20001011 |
| | US 2002123124 | A1 | 20020905 | US 2001-971611 | 20011009 |
| | US 6743616 | B2 | 20040601 | | |
| | EP 1199356 | A2 | 20020424 | EP 2001-123378 | 20011010 |
| | EP 1199356 | A3 | 20020515 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | CN 1348000 | A | 20020508 | CN 2001-141253 | 20011011 |
| | US 2004265959 | A1 | 20041230 | US 2004-798278 | 20040312 |
| PRAI | JP 2000-310605 | A | 20001011 | | |

US 2001-971611

A1 20011009

L2 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:660551 HCAPLUS
DN 137:212837
TI Improvement of thermostability of a calcium-free .alpha.-amylase from an alkaliphilic *Bacillus* sp. by protein engineering
AU Hagihara, Hiroshi; Igarashi, Kazuaki; Hayashi, Yasuhiro; Kitayama, Kaori; Endo, Keiji; Ozawa, Tadahiro; Ozaki, Katsuya; Kawai, Shuji; Ito, Susumu
CS Tochigi Research Laboratories, Kao Corporation, Tochigi, 321-3497, Japan
SO Journal of Applied Glycoscience (2002), 49(3), 281-289
CODEN: JAGLFX; ISSN: 1344-7882
PB Japanese Society of Applied Glycoscience
DT Journal
LA English

L2 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:10699 HCAPLUS

DN 134:82718
TI Mutant .alpha.-amylases with improved thermal stability for use in detergents
IN Endo, Keiji; Igarashi, Kazuaki; Hayashi, Yasuhiro; Hagihara, Hiroshi; Ozaki, Katsuya
PA Kao Corp., Japan
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 1065277 | A1 | 20010103 | EP 2000-111911 | 20000613 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | JP 2001054392 | A2 | 20010227 | JP 2000-170517 | 20000607 |
| | CN 1277258 | A | 20001220 | CN 2000-118140 | 20000609 |
| | US 2005181493 | A1 | 20050818 | US 2004-988529 | 20041116 |
| PRAI | JP 1999-163569 | A | 19990610 | | |
| | US 2000-590375 | A3 | 20000609 | | |

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 11 MEDLINE on STN DUPLICATE 3

AN 2001403199 MEDLINE
DN PubMed ID: 11453991

TI Deduced amino-acid sequence of a calcium-free alpha-amylase from a strain of *Bacillus*: implications from molecular modeling of high oxidation stability and chelator resistance of the enzyme.

AU Hagihara H; Hayashi Y; Endo K; Igarashi K; Ozawa T; Kawai S; Ozaki K; Ito S

CS Tochigi Research Laboratories of Kao Corporation, Ichikai, Haga, Japan.
SO European journal of biochemistry / FEBS, (2001 Jul) 268 (14) 3974-82.

Journal code: 0107600. ISSN: 0014-2956.

CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-AB051102

EM 200108

ED Entered STN: 20010820

Last Updated on STN: 20010820

Entered Medline: 20010816

L2 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:263361 HCAPLUS

DN 135:15848

TI Novel .alpha.-amylase that is highly resistant to chelating reagents and chemical oxidants from the alkaliphilic *Bacillus* isolate KSM-K38

AU Hagihara, Hiroshi; Igarashi, Kazuaki; Hayashi, Yasuhiro; Endo, Keiji; Ikawa-Kitayama, Kaori; Ozaki, Katsuya; Kawai, Shuji; Ito, Susumu

CS Tochigi Research Laboratories of Kao Corporation, Tochigi, 321-3497, Japan
SO Applied and Environmental Microbiology (2001), 67(4), 1744-1750

PB CODEN: AEMIDF; ISSN: 0099-2240
American Society for Microbiology

DT Journal
LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 10 OF 11 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2000:452371 HCPLUS

DN 133:70699

TI Novel oxidizing agents-resistant alkaline amylase from *Bacillus* and its use for preparation of detergents

IN Hagiwara, Hiroshi; Kitayama, Kaori; Hayashi, Yasuhiro; Igarashi, Kazuaki; Endo, Keiji; Ozaki, Katsuya

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | JP 2000184883 | A2 | 20000704 | JP 1998-362488 | 19981221 |
| | US 6403355 | B1 | 20020611 | US 1999-465519 | 19991216 |
| | EP 1022334 | A2 | 20000726 | EP 1999-125399 | 19991220 |
| | EP 1022334 | A3 | 20020807 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | CN 1257917 | A | 20000628 | CN 1999-126451 | 19991221 |
| | CN 1552852 | A | 20041208 | CN 2004-10059291 | 19991221 |
| | US 2002197698 | A1 | 20021226 | US 2002-136272 | 20020502 |
| | US 6916645 | B2 | 20050712 | | |
| PRAI | JP 1998-362487 | A | 19981221 | | |
| | JP 1998-362488 | A | 19981221 | | |
| | US 1999-465519 | A3 | 19991216 | | |

L2 ANSWER 11 OF 11 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2000:452370 HCPLUS

DN 133:86088

TI Novel chelating agents-resistant alkaline amylase from *Bacillus* and its use for preparation of detergents

IN Hagiwara, Hiroshi; Kitayama, Kaori; Hayashi, Yasuhiro; Igarashi, Kazuaki; Endo, Keiji; Ozaki, Katsuya

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | JP 2000184882 | A2 | 20000704 | JP 1998-362487 | 19981221 |
| | US 6403355 | B1 | 20020611 | US 1999-465519 | 19991216 |
| | EP 1022334 | A2 | 20000726 | EP 1999-125399 | 19991220 |
| | EP 1022334 | A3 | 20020807 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | CN 1257917 | A | 20000628 | CN 1999-126451 | 19991221 |
| | CN 1552852 | A | 20041208 | CN 2004-10059291 | 19991221 |
| | US 2002197698 | A1 | 20021226 | US 2002-136272 | 20020502 |
| | US 6916645 | B2 | 20050712 | | |
| PRAI | JP 1998-362487 | A | 19981221 | | |
| | JP 1998-362488 | A | 19981221 | | |
| | US 1999-465519 | A3 | 19991216 | | |

=> d 10 ab

L2 ANSWER 10 OF 11 HCPLUS COPYRIGHT 2006 ACS on STN

AB A novel oxidizing agents-resistant alk. liquefaction-type ***amylase*** has been prep'd. from ****Bacillus**** strains KSM-K36 and ***KSM*** - ***K38*** , resp. The enzyme exhibits a pH optimum >8.0, temp. optimum

50-60.degree., pI 4.2, and mol. wt. 55,000.+-.5,000 by SDS-PAGE. The enzyme remains >70% active after incubating at pH 10, 30.degree., for 60 min in the presence of 2% H₂O₂. Use of the amylase for the prepn. of laundry or dish wash detergents is also described.

=> dis his

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCPLUS,
NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 19:01:22 ON 13 JAN 2006

L1 27 S AMYLASE (5A)BACILLUS (5A) (KSM-K38 OR BP-6946 OR K38AMY)

L2 11 DUP REM L1 (16 DUPLICATES REMOVED)

=> log h

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 30.85 | 31.27 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE | -0.75 | -0.75 |

SESSION WILL BE HELD FOR 60 MINUTES

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